

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P192682

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20855.4 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

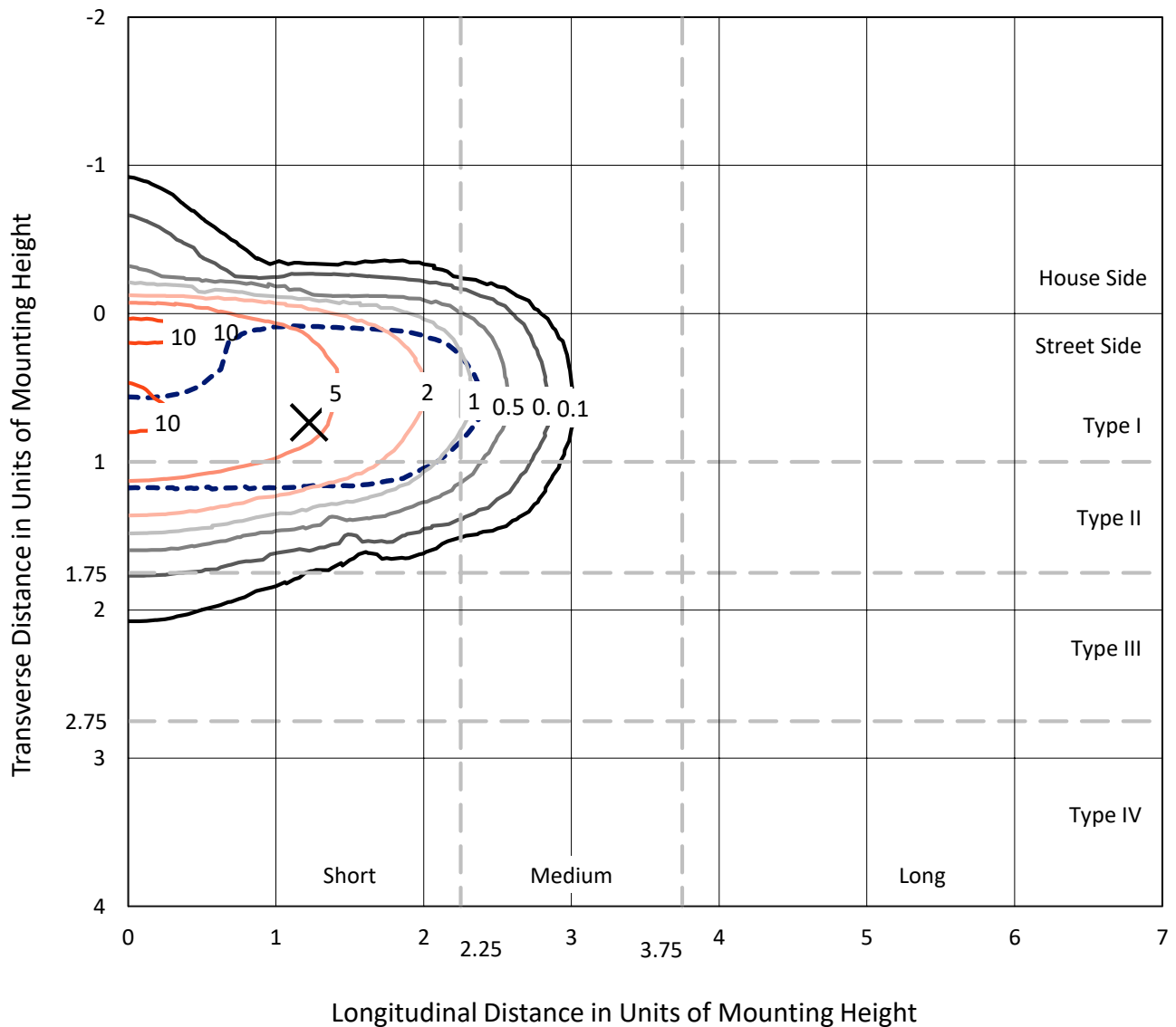


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

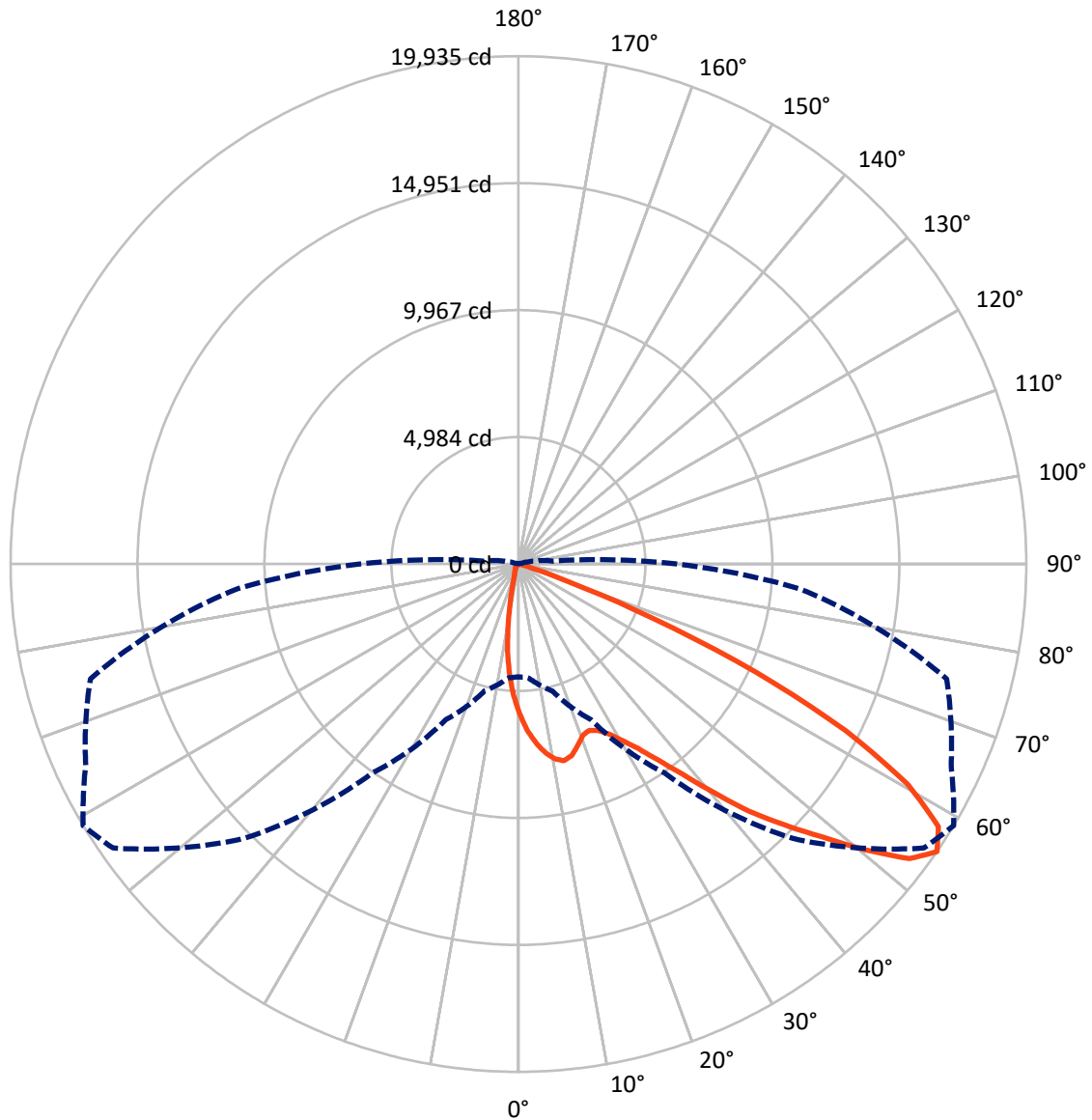


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1164.9	0.0	1164.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	19690.5	0.0	19690.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	20855.4	0.0	20855.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	2.4
10°-20°	1177.4	5.6
20°-30°	2003.4	9.6
30°-40°	3445.4	16.5
40°-50°	5319.3	25.5
50°-60°	5347.6	25.6
60°-70°	2742.3	13.1
70°-80°	297.2	1.4
80°-90°	31.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20855.4	100.0
0°-180°	20855.4	100.0

Coefficient of Utilization



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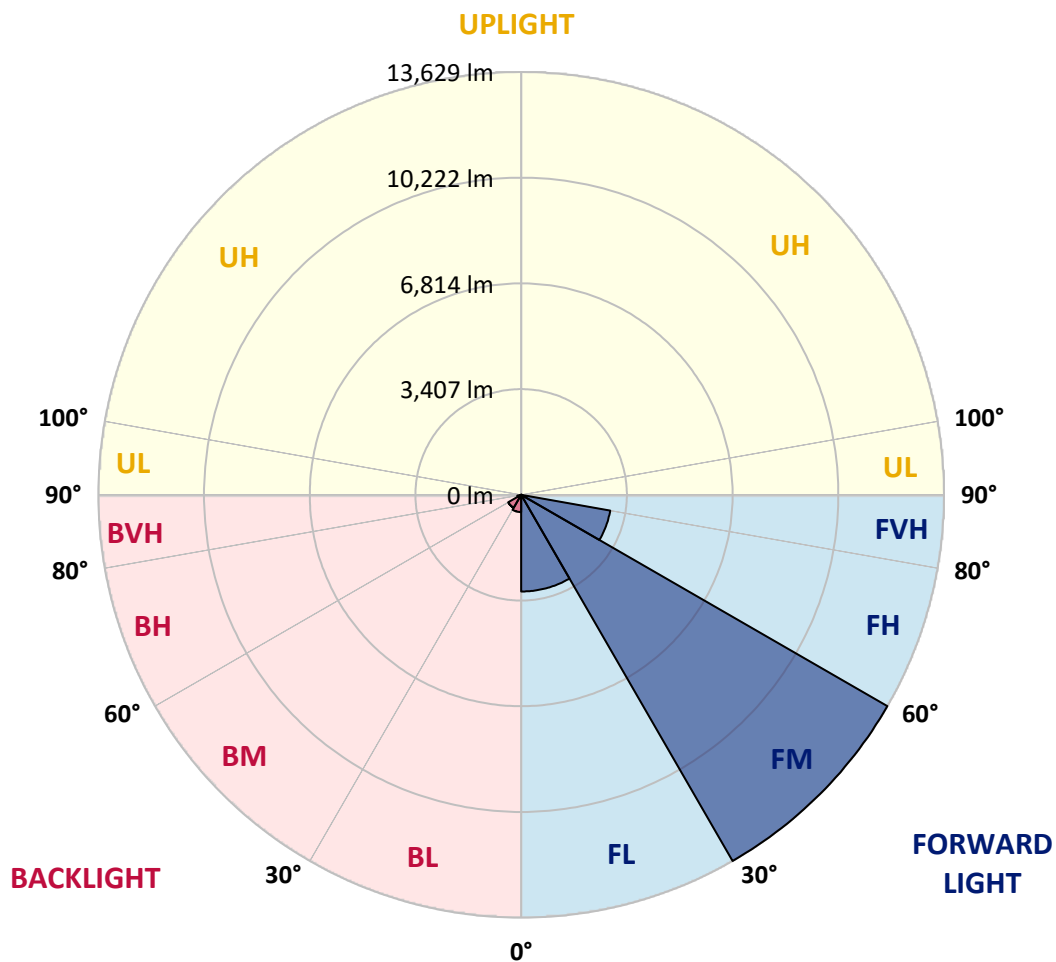
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3116.5	14.9			
FM (30°-60°)	13628.9	65.3			
FH (60°-80°)	2914.7	14.0			G2/5000
FVH (80°-90°)	30.4	0.1			G1/100
BL (0°-30°)	556.0	2.7	B2/1000		
BM (30°-60°)	483.5	2.3	B1/1000		
BH (60°-80°)	124.8	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7
2.5°	6946.3	6872.5	6850.4	6835.6	6767.9	6683.1	6567.3	6513.2	6402.4	6224.0	6004.9
5°	7582.7	7569.2	7520.0	7492.9	7420.3	7299.6	7115.1	7026.4	6850.4	6550.1	6157.6
7.5°	7304.5	7389.5	7457.2	7570.3	7713.1	7708.2	7553.2	7460.9	7264.0	6867.6	6327.3
10°	6230.1	6299.1	6409.8	6667.0	7191.3	7654.0	7836.3	7769.8	7612.2	7159.3	6491.0
12.5°	6019.6	6012.2	6031.9	6107.0	6381.5	7041.2	7788.2	7922.4	7890.3	7426.4	6646.1
15°	6131.6	6123.0	6120.6	6146.4	6212.9	6491.0	7427.7	7812.9	8060.3	7673.9	6777.8
17.5°	6445.5	6408.6	6388.8	6367.9	6348.3	6417.3	6994.4	7506.4	8086.1	7890.3	6887.3
20°	6983.3	6921.8	6849.1	6731.0	6620.2	6585.8	6812.2	7191.3	7993.7	8055.3	6958.7
22.5°	7659.0	7580.3	7454.8	7239.3	7014.1	6883.7	6902.1	7091.6	7856.0	8235.0	6991.9
25°	8418.4	8317.5	8150.0	7851.1	7520.0	7288.5	7168.0	7234.4	7793.1	8445.5	7030.1
27.5°	9232.0	9120.0	8900.8	8493.5	8118.1	7805.5	7559.3	7550.7	7900.2	8721.2	7091.6
30°	10038.0	10020.8	9735.3	9304.5	8807.3	8427.0	8072.5	8027.1	8199.4	9102.7	7213.6
32.5°	11113.8	10984.5	10635.0	10191.9	9618.4	9161.8	8742.1	8636.3	8658.4	9547.0	7401.8
35°	12470.1	12328.5	11836.2	11224.5	10583.3	10044.2	9580.2	9436.2	9382.1	10274.4	7719.2
37.5°	13346.3	13344.0	13034.9	12412.2	11724.2	11129.8	10625.1	10456.5	10347.0	11153.1	8211.6
40°	13369.7	13427.6	13468.2	13462.1	12972.3	12424.5	11976.6	11768.6	11513.7	12327.2	8848.0
42.5°	12652.2	12801.2	13159.3	13767.3	14057.8	13839.9	13462.1	13257.7	12878.7	13583.8	9623.3
45°	11682.3	11785.8	12412.2	13532.2	14645.9	15243.0	14955.0	14589.4	14089.7	14894.7	10318.7
47.5°	11247.9	11266.4	11671.3	12900.8	14690.4	16392.5	16567.2	15972.8	15190.0	15950.6	10862.7
50°	9949.4	9982.7	10541.5	11806.7	14170.9	16935.3	18187.0	17623.2	16390.0	16764.2	11060.9
52.5°	7499.0	7545.8	8254.7	10008.5	12743.2	16703.9	19346.3	19209.8	17704.5	17161.7	11071.9
55°	4424.6	4486.0	5163.0	6737.2	10023.3	15231.9	19432.5	19934.6	18742.0	17396.8	11054.7
57.5°	2066.4	2109.5	2497.2	3470.7	6233.8	12038.0	18135.3	19437.3	19314.3	17521.2	11176.5
60°	1097.8	1110.2	1203.7	1502.8	2817.2	7633.2	15603.6	17551.9	18792.5	17693.5	11325.5
62.5°	839.3	843.1	838.1	873.8	1184.1	3388.2	11794.3	14429.5	16691.5	17564.2	11160.5
65°	727.3	733.5	699.0	690.4	759.4	1208.6	7006.7	10285.4	13116.2	15820.2	10036.9
67.5°	652.3	654.8	613.0	577.2	589.6	653.5	2764.3	5630.6	8681.7	11596.2	7275.0
70°	600.6	598.2	552.7	496.0	479.9	446.8	878.8	2064.0	4148.9	5880.6	3383.3
72.5°	531.6	532.9	510.8	436.9	398.8	312.6	407.4	601.8	1238.1	1602.4	792.5
75°	471.4	465.2	438.1	391.3	328.7	205.5	201.8	268.3	381.6	379.0	171.1
77.5°	340.9	334.8	343.4	321.2	252.3	133.0	100.9	129.3	155.0	150.1	48.0
80°	249.8	246.2	221.6	267.0	222.8	91.1	62.8	69.0	80.0	67.7	14.7
82.5°	171.1	169.9	156.3	147.7	126.7	55.4	39.4	43.0	51.7	38.1	7.4
85°	27.1	30.8	113.2	89.8	75.1	24.6	27.1	29.5	34.4	20.9	2.5
87.5°	0.0	0.0	52.9	46.8	14.7	9.9	16.0	17.3	17.3	11.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7
2.5°	5892.9	5769.8	5542.0	5307.0	5089.2	4829.5	4651.0	4516.9	4361.8	4320.0	4411.1
5°	5933.6	5700.9	5211.0	4678.2	4177.2	3622.2	3197.5	2861.5	2557.5	2454.2	2547.7
7.5°	5997.5	5651.7	4852.9	3975.4	3103.9	2237.5	1644.3	1254.2	1005.5	931.7	971.1
10°	6061.4	5580.3	4438.1	3143.4	1952.0	1089.2	708.9	566.2	513.2	502.1	508.3
12.5°	6114.3	5484.3	3932.2	2235.0	1043.7	583.3	464.1	440.7	433.2	433.2	435.7
15°	6146.4	5339.1	3332.9	1421.6	600.6	440.7	405.0	397.4	397.4	398.8	401.2
17.5°	6142.8	5154.5	2676.9	860.3	449.3	390.2	369.2	363.1	361.8	364.3	365.6
20°	6097.2	4913.2	2018.4	567.4	391.3	355.6	334.8	323.7	322.5	324.9	327.3
22.5°	6011.0	4615.3	1443.7	436.9	353.2	322.5	296.6	286.8	286.8	289.2	291.7
25°	5906.4	4251.1	987.0	370.5	318.8	286.8	262.1	253.6	256.0	262.1	263.5
27.5°	5776.0	3841.2	670.8	317.5	277.0	251.1	232.6	226.5	232.6	241.3	243.6
30°	5664.0	3414.2	478.8	274.5	235.1	216.7	205.5	205.5	214.1	230.1	233.9
32.5°	5577.8	3000.6	369.2	242.4	204.4	188.3	182.1	188.3	201.8	217.9	221.6
35°	5566.8	2659.7	312.6	216.7	182.1	166.2	163.7	174.9	188.3	200.6	203.1
37.5°	5651.7	2344.6	281.9	195.7	162.5	147.7	145.2	158.8	172.3	187.1	190.7
40°	5812.9	2097.2	259.7	176.0	146.4	130.4	125.5	135.4	153.8	173.5	178.4
42.5°	6022.2	1892.9	235.1	156.3	130.4	108.2	102.1	113.2	133.0	153.8	159.9
45°	6221.4	1716.9	208.0	134.2	109.6	83.7	81.2	96.0	105.9	126.7	131.6
47.5°	6331.0	1561.9	184.6	109.6	84.9	67.7	67.7	71.3	81.2	105.9	110.8
50°	6294.1	1437.6	159.9	81.2	59.1	51.7	51.7	50.5	65.2	84.9	88.6
52.5°	6220.2	1366.2	137.8	62.8	40.7	36.9	33.3	36.9	45.6	54.2	55.4
55°	6209.2	1353.8	115.7	50.5	28.3	24.6	18.5	18.5	18.5	17.3	14.7
57.5°	6295.3	1373.5	97.2	40.7	20.9	16.0	9.9	0.0	0.0	0.0	0.0
60°	6383.9	1394.4	83.7	28.3	14.7	8.6	1.2	0.0	0.0	0.0	0.0
62.5°	6236.3	1347.7	70.2	17.3	11.0	3.8	0.0	0.0	0.0	0.0	0.0
65°	5478.2	1147.1	55.4	12.3	7.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3896.6	768.0	36.9	7.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1778.4	321.2	23.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	380.3	99.7	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	77.6	72.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.6	114.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.7	82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)